

Docket No.: 74451P116

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:

MAYA RANI GUPTA, ET AL.

Application No.: 09/597,861

Filed: June 20, 2000

For: **A BLOCK QUANTIZATION METHOD
FOR COLOR HALFTONING**

Art Group: 2624

Examiner: Tommy D. Lee

RECEIVED

JUL 16 2004

Technology Center 2600

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

In accordance with the duty of disclosure, enclosed is a copy of IDS Citation Form PTO/SB/08 or PTO-1449, together with copies of the documents cited on that form, except for copies not required to be submitted (e.g., copies of U.S. patents and U.S. published patent applications need not be enclosed for applications filed after June 30, 2003). This IDS and IDS Citation Form are being submitted before the mailing of a final Office Action. It is respectfully requested that the cited references be considered and that the enclosed copy of PTO/SB/08 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s).

07/15/2004 MBLANCO 00000011 09597861

01 FC:1806

180.00 OP

The submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made in the subject application and is not to be construed as an admission that the information cited in this statement is material to patentability.

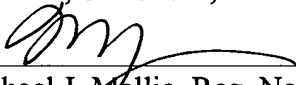
The fee set in the amount of \$180.00 for submission of the Information Disclosure Statement is enclosed herewith. Please charge any additional fees due to Deposit Account 02-2666. A duplicate copy of the Fee Transmittal (PTO/SB/17) is enclosed for this purpose.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP


Date:

7/12/04


Michael J. Mallie, Reg. No. 36,591

12400 Wilshire Boulevard, 7th Floor
Los Angeles, CA 90025
Telephone: (408) 720-8300

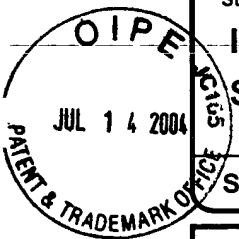
I hereby certify that this correspondence is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



Debra L. Riggio

7/12/04
07-12-04

Date



Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 3

Complete if Known

| | |
|------------------------|-----------------|
| Application Number | 09/597,861 |
| Filing Date | June 20, 2000 |
| First Named Inventor | Maya Rani Gupta |
| Art Unit | 2624 |
| Examiner Name | Tommy D. Lee |
| Attorney Docket Number | 74451P116 |

U.S. PATENT DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Document Number | Publication Date Issue Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|-----------------------|--------------------------|--|--|--|---|
| | | Number - Kind Code ² (if known) | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |

RECEIVED

JUL 16 2004

Technology Center 2600

FOREIGN PATENT DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
|-----------------------|--------------------------|---|--------------------------------|--|---|----------------|
| | | Country Code ³ - Number ⁴ - Kind Code ⁵ (if known) | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

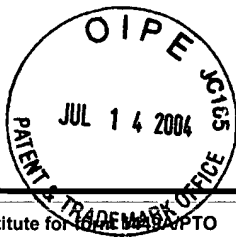
Examiner
SignatureDate
Considered

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Based on PTO/SB/08A (08-03) as modified by Blakely, Solokoff, Taylor & Zafman (wlr) 08/11/2003.

Send To: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450



| | | | | | |
|---|---|----|---|--------------------------|-----------------|
| Substitute for Information Disclosure Statement by Applicant | | | | Complete if Known | |
| | | | | Application Number | 09/597,861 |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | | | | Filing Date | June 20, 2000 |
| | | | | First Named Inventor | Maya Rani Gupta |
| | | | | Art Unit | 2624 |
| | | | | Examiner Name | Tommy D. Lee |
| | | | | Attorney Docket Number | 74451P116 |
| Sheet | 2 | of | 3 | | |

RECEIVED

JUL 16 2004

Technology Center 2600

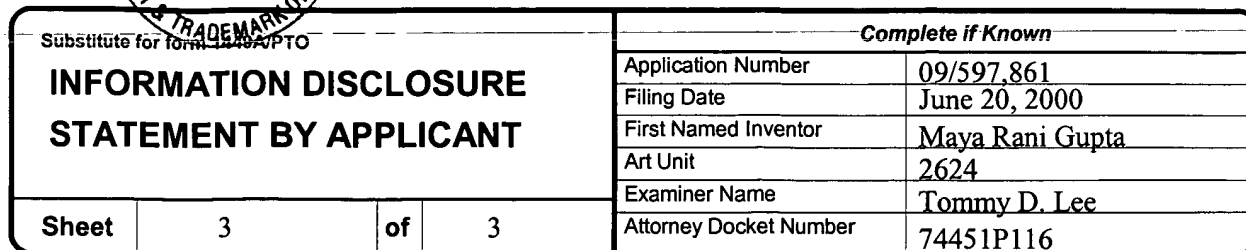
| NON PATENT LITERATURE DOCUMENTS | | | |
|---------------------------------|-----------------------|---|----------------|
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| | | BREAUX, Nancy A. and CHU, Chee-Hung Henry, "Wavelet Methods for Compression, Rendering, and Descreening in Digital Halftoning," Proceedings SPIE - The International Society for Optical Engineering, vol. 3078, April 22-24, 1997, pp. 656-667 | |
| | | PAPPAS, Thrasyvoulos N. and NEUHOFF, David L., "Least-Squares Model-Based Halftoning," IEEE Transactions on Image Processing, vol. 8, no. 8, August 1999, pp 1102 - 1116 | |
| | | ZAKHOR, Avideh et al., "A New Class of B/W and Color Halftoning Algorithms," Department of Electrical Engineering and Computer Sciences, University of California, Berkeley, IEEE, CH2977-7/91/0000-2801, 1991, pp. 2801-2804 | |
| | | NEUHOFF, David L. and PAPPAS, Thrasyvoulos N., "Perceptual Coding of Images for Halftone Display," IEEE, CH2977-7/91/0000-2797, 1991, pp. 2797-2800 | |
| | | GENTILE, Ronald S. et al., "Quantization and Multilevel Halftoning of Color Images for Near-Original Image Quality," J. Optical Society of America A, vol. 7, no. 6, June 1990, 0740-3232/90/061019-08, pp. 1019-1026 | |
| | | OSTROMOUKHOV, V. and HERSCH, R.D., "Structure Artifact Free Multi-Level Error Diffusion Algorithm," SPIE, vol 3409, May 18-20, 1998, Zurich, pp. 215-220 | |
| | | http://mathworld.wolfram.com/VectorNorm.html , July 12, 2004 (2 pages) | |

| | |
|--------------------|-----------------|
| Examiner Signature | Date Considered |
|--------------------|-----------------|

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

¹Applicant's unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached.

Based on PTO/SB/08B (08-03) as modified by Blakely, Solokoff, Taylor & Zafran (wlr) 08/11/2003.
Send To: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450



| NON PATENT LITERATURE DOCUMENTS | | | |
|---------------------------------|--------------------------|---|----------------|
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| | | http://planetmath.org/encyclopedia/Bounded Function.html , July 12, 2004 (2 pages) | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

RECEIVED

JUL 16 2004

Technology Center 26

| | |
|-----------------------|--------------------|
| Examiner Signature | Date Considered |
|-----------------------|--------------------|

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

¹Applicant's unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached.

Based on PTO/SB/08B (08-03) as modified by Blakely, Solokoff, Taylor & Zafman (wlr) 08/11/2003.
Send To: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450